

ATTACHMENT 4

BUDGET

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Table of Contents

Attachment 4 Budget.....	1
Joshua Basin Water District Recharge Basin and Pipeline Project Budget	2
Hi-Desert Water District Wastewater Treatment and Water Reclamation Project Budget	6
Mojave Water Agency Turf Removal Conservation Incentive Program Budget.....	14
Proposition 84 IRWM Grant Administration Budget	16
Summary Budget.....	17
Table 1 - Work Plan Task Budgets - JBWD Groundwater Recharge.....	3
Table 2 - Detailed Construction Budget - JBWD Groundwater Recharge.....	4
Table 3 - Application "Table 7" Project Budget, JBWD Groundwater Recharge.....	5
Table 4 - Work Plan Task Budgets, HDWD Wastewater Treatment	7
Table 5 - Detailed Construction Budget - HDWD Wastewater Treatment Plant Phase 1a.....	9
Table 6 - Detailed Construction Budget - HDWD Wastewater Treatment Phase 1a Collection System	12
Table 7 - Application "Table 7" Project Budget, HDWD Wastewater Treatment	13
Table 9 - Work Plan Task Budgets, MWA Turf Removal	14
Table 10 - Detailed Project Budget, MWA Turf Removal.....	15
Table 11 - Application "Table 7" Project Budget, MWA Turf Removal	16
Table 11 - Application "Table 8" Summary Budget.....	17
Figure 1 - Cash for Grass Application Form.....	18

JOSHUA BASIN WATER DISTRICT RECHARGE BASIN AND PIPELINE PROJECT BUDGET

The following information addresses the cost analysis of the complete groundwater recharge project. Unit costs for major items of work were obtained from vendors and other local public bidding results for similar projects.

The project cost opinion include both construction and soft cost elements, some of which have already been completed. For example, CEQA compliance, USGS monitoring well construction, and land acquisition has been completed. NEPA compliance efforts are currently underway, with completion scheduled for the next few months. Preliminary engineering efforts have also been completed, and the final design consultant has been selected and contracted, with notice to proceed pending final funding definition. Overall, the project is ready to be completed and constructed within the next year to eighteen months.

Budget items corresponding to the Work Plan tasks are presented in Table 1.

A detailed construction budget, including soft cost activities (such as environmental documentation) is presented in Table 2. This table shows total and remaining costs as well as funding sources.

The application “Table 7” Project Budget, showing funding sources and requested grant funds is presented as Table 3.

Table 1 - Work Plan Task Budgets - JBWD Groundwater Recharge

TASK		DESCRIPTION	BUDGET
1a	Assessment and Evaluation	Prepare Preliminary Engineering Studies and evaluations of the proposed project	\$55,000
1b	USGS Modeling & Monitoring Well Construction	Prepared groundwater modeling and analysis studies, 100-foot auger hole site investigations, and multi-level monitoring well on recharge site.	\$1,098,500
1c	Environmental Documentation	Prepare Draft and Final EIR in support of the project, including alternatives analysis	\$491,700
1d	Final Design	Prepare Plans, Specifications, and Estimates for proposed project	\$528,000
1e	Land, easement, and ROW acquisition	Acquire properties and easements needed for construction of facilities	\$232,000
1f	Permitting	Acquire required County, State, and Federal permits	\$27,500
1g	Construction Contracting	Public Bid Process for selection of a contractor	\$137,500
1h	Construction	Construct Facilities	\$5,457,800
		TOTAL	\$8,028,000

Table 2 - Detailed Construction Budget - JBWD Groundwater Recharge

Joshua Basin Water District
Pipeline and Recharge Basin Design and Construction

Opinion of Probable Construction Cost - Recharge Pipeline						Remaining Costs
Item	Item/Description	Unit	Quantity	Unit Price	Total Amount	
1	Mobilization/Demob, Insurance & Bonds	LS	1	\$ 175,000	\$ 175,000	\$ 175,000
2	Pothole to Locate Existing Utilities	LS	100	\$ 500	\$ 50,000	\$ 50,000
3	Furnish and Install 12" PVC Pipe, Fittings, Excavation, Thrust Blocks, Backfill, Compaction, Repaving, and Pavement Striping	LF	25,889	\$ 98	\$ 2,537,100	\$ 2,537,100
	Furnish and Install 12" Pressure Reduction Assembly (Cla-Val)	EA	1	\$ 20,000	\$ 20,000	\$ 20,000
4	Furnish and Install Air/Vacuum Valve Assembly	EA	12	\$ 4,800	\$ 57,600	\$ 57,600
5	Furnish and Install Blow-off Assembly	EA	12	\$ 4,000	\$ 48,000	\$ 48,000
6	Furnish and Install New 12" In-Line Valve (250 psi)	EA	9	\$ 4,850	\$ 43,700	\$ 43,700
7	Connection to existing Raw Water Line	EA	1	\$ 20,000	\$ 20,000	\$ 20,000
8	Obtain Traffic Control Permits	LS	1	\$ 10,000	\$ 10,000	\$ 10,000
9	Provide Traffic Control	LF	18,500	\$ 7	\$ 129,500	\$ 129,500
10	Testing and Disinfection	LF	25,889	\$ 2.50	\$ 64,700	\$ 64,700
11	Clean-Up and Disposal	LS	1	\$ 50,000	\$ 50,000	\$ 50,000
12	Sheeting/Shoring Required Line Item for Section Nos. 06705 and 06707 of the California Labor Code.	LS	1	\$ 75,000	\$ 75,000	\$ 75,000
	<i>Subtotal - Pipeline Construction</i>				\$ 3,280,600	
13	CEQA Compliance	LS	1	\$ 335,000	\$ 335,000	
14	Engineering Design	LS	1	\$ 360,000	\$ 360,000	\$ 232,000
15	Geotechnical Investigation (included in Engineering costs)				\$ -	
16	Surveying (included in Engineering costs)				\$ -	
17	Construction Management and Inspection	LS	1	\$ 260,000	\$ 260,000	\$ 260,000
18	Administration, Legal & ROW	LS	1	\$ 75,000	\$ 75,000	\$ 37,500
	<i>Subtotal - Soft Costs</i>				\$ 1,030,000	
	Estimate of Probable Construction Cost - Pipeline				\$ 4,310,600	
Opinion of Probable Construction Cost - Recharge Basin						
Item	Item/Description	Unit	Quantity	Unit Price	Total Amount	
1	Mobilization/Demob, Insurance & Bonds	LS	1	\$ 45,000	\$ 45,000	\$ 45,000
2	Clearing and Grubbing	AC	30	\$ 1,025	\$ 30,800	\$ 30,800
	State Required Line Item for Sections 06705 and 06707,					
3	Excavation Safety Measures	LS	1	\$ 2,000	\$ 2,000	\$ 2,000
4	Flow Control Facility	EA	1	\$ 75,000	\$ 75,000	\$ 75,000
5	Excavation of Recharge Basins Area (31.22.16.10.0016)	SF	720,000	\$ 0.4	\$ 259,200	\$ 259,200
6	Earthen Berms	CY	21,978	\$ 4	\$ 87,900	\$ 87,900
7	Furnish and Install 12-inch PVC Distribution Piping	LF	2,250	\$ 102	\$ 229,500	\$ 229,500
8	Furnish and Install 12-inch Valves	EA	8	\$ 2,800	\$ 22,400	\$ 22,400
9	18-inch Thick Grouted Rip-Rap for overflow (31.37.13.10.0110)	SY	480	\$ 118	\$ 56,600	\$ 56,600
10	Valves, Pipe Supports and Appurtenances	LS	1	\$ 50,000	\$ 50,000	\$ 50,000
11	SCADA and Instrumentation	LS	1	\$ 50,000	\$ 50,000	\$ 50,000
	<i>Subtotal - Recharge Basin Construction</i>				\$ 908,400	
12	CEQA Compliance	LS	1	\$ 112,000	\$ 112,000	
13	USGS Monitoring Well Construction & Studies	LS	1	\$ 998,664	\$ 998,700	
14	Recharge Land Acquisition	AC	30	\$ 7,030	\$ 210,900	
15	Construction Management and Inspection	LS	1	\$ 75,000	\$ 75,000	\$ 75,000
16	Surveying (included in Engineering costs)				\$ -	
17	Engineering Design	LS	1	\$ 120,000	\$ 120,000	\$ 118,000
18	Landscaping	AC	115,200	\$ 4	\$ 512,600	\$ 512,600
19	Administration & Legal	LS	1	\$ 50,000	\$ 50,000	\$ 25,000
	<i>Subtotal - Soft Costs</i>				\$ 2,079,200	
	Estimate of Probable Construction Cost - Recharge Basin				\$ 2,987,600	
Opinion of Probable Construction Cost					\$ 7,298,200	\$ 5,449,100
Contingency (10%)					\$ 729,800	\$ 544,910
Opinion of Probable Project Cost					\$ 8,028,000	\$ 5,994,010

Previous 16-inch Pipeline Cost Opinion	\$ 8,971,500	\$ 6,937,480
Projected Savings with 12-inch Pipeline Alternative	\$ 943,500	\$ 943,470

REMAINING COST ANALYSIS (12-inch Pipeline Alternative)

Remaining Project Expenditure (assuming 10 percent contingency is required)	\$ 5,994,010
Proposed District Funding Sources:	
• Proposition 84	\$ 4,000,000
• Mojave Water Agency	\$ 1,000,000
• Morango Pipeline Reserve	\$ 600,000
• Environmental Protection Agency	\$ 291,000
• Supplemental District Funding (assuming bids are realized as predicted)	\$ 103,010

Table 3 - Application "Table 7" Project Budget, JBWD Groundwater Recharge

Table 7 - Project Budget						
Proposal Title: Mojave Water Agency IRWM Region Recharge, Reclamation and Conservation Implementation Grant Application						
Project Title: Joshua Basin Water District Recharge Basin and Pipeline Project (CR)						
		(a)	(b)	(c)	(d)	(e)
Budget Category		Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$125,000	\$0	\$0	\$125,000	100%
(b)	Land Purchase/Easement	\$210,900	\$0	\$0	\$210,900	100%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$577,000	\$350,000	\$0	\$927,000	62%
(d)	Construction/Implementation	\$1,047,250	\$3,141,750	\$0	\$4,189,000	25%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$255,600	\$257,000	\$0	\$512,600	50%
(f)	Construction Administration	\$83,750	\$251,250	\$0	\$335,000	25%
(g)	Other Costs	\$998,700	\$0	\$0	\$998,700	100%
(h)	Construction/Implementation Contingency	\$729,800	\$0	\$0	\$729,800	100%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$4,028,000	\$4,000,000	\$0	\$8,028,000	50%
*List sources of funding: <ul style="list-style-type: none"> • Proposition 84 – \$4,000,000 • Mojave Water Agency – \$1,000,000 • Morongo Pipeline Reserve – \$600,000 • U.S. Environmental Protection Agency – \$291,000 • JBWD expenditures since September 2008 – \$2,033,990 • JBWD reserves and deferrals – \$103,010 						

Notes:

- Category (b) costs are for land purchase; there are no easement costs

HI-DESERT WATER DISTRICT WASTEWATER TREATMENT AND WATER RECLAMATION PROJECT BUDGET

The Hi-Desert Water District is proposing to construct a wastewater treatment facility and collection system to serve the residents of the Yucca Valley area. These subject grant funds will be utilized for tasks needed to ultimately construct the project. This project is necessary since there are no wastewater facilities in Yucca Valley, which currently utilizes septic systems. These septic systems are linked to nitrate contamination of the groundwater basin.

The Hi-Desert Water District is scheduled to be subject to a proposed septic prohibition, in March 2016, by the RWQCB to protect the drinking water supply.

The District is considered a disadvantaged community with a median income less than 80 percent of the statewide median. It is critical that the District seek grants and other low cost financing to fund this project. With the requested grand amount, the fully-functional Phase 1a will be fully funded and ready to proceed. The preliminary cost estimate for Phase 1a included herein, which includes the treatment plant and collection system will be included in the Engineer's Assessment District draft report, which is due to be complete in January 2011.

To fund subsequent phases, the District will seek to minimize financial impacts on the community by identifying bonds, grants, low-interest loans and other financing methods. Potential funding sources include the Bureau of Reclamation, State of California Bond Funds, Community Development Block Grants, Redevelopment Agency Funds and State Revolving Funds. Costs not covered by grants will likely be financed over 30 years to lessen the immediate impact on the community and provide that future residents and businesses pay their fair share of the cost. A rate study is being performed to develop a fair and equitable rate structure. The District is working to minimize the financial impacts.

In addition to paying a share of the costs for the Wastewater Treatment and Water Reclamation Facility, property owners will abandon their existing septic tanks and connect to the District sewer at their own cost. To address this private property connection, the District is exploring ways to receive grants for low income residents, options to allow property owners to finance these costs, and other measures to address property owner concerns.

Budget items corresponding to the Work Plan tasks are presented in Table 4. The reader should note that this table includes zero-dollar tasks for subsequent phases of project implementation that are provided for context and are not part of the grant request. These tasks are indicated by a shaded background.

A detailed construction budget is presented in Table 5 and Table 6. Detailed estimates of operations and maintenance costs are presented in a series of tables included in Attachment 7¹.

¹ Att7_IG1_MWA_WSBen_1ofTotal1.docx

The application “Table 7” Project Budget, showing funding sources and requested grant funds is presented as Table 7 (page 13).

Table 4 - Work Plan Task Budgets, HDWD Wastewater Treatment

TASK		DESCRIPTION	BUDGET
2	HDWD Wastewater Treatment & Reclamation Project		
2a	Land Acquisition, Easements and Rights of Way	Acquire the land and easement rights to construct the Treatment Plan and collection system	\$100,000
2b	Sewer Master Plan	Develop the strategy for deploying the sewer system	--
2c	Design		
2c1	Prelim Design for Phase 1a	Preliminary Design Report for the construction of Phase 1a	--
2c2	Survey and Mapping	Survey and Map the land in Phase 1 and 2 to prepare a project control network, map topography, septic tanks, sensitive plants, and easements	\$79,000
2c3	Hydrology Study	Study runoff and water flow to determine necessary mitigation measures	\$25,000
2c4	Geotechnical Study	Study of soil and geologic characteristics to determine compaction and foundation requirements and if mitigation measures are necessary	\$30,000
2c5	Conditional Use Permit	Submit to the Town of Yucca Valley the Conditional Use Permit to determine the site improvements to meet the Town's standards	\$84,000
2c6	Final Design	Using the Survey and Mapping, the Final Engineered Plans for Construction	\$690,000
2d	CEQA Environmental Review	State Environmental Clearance (complete)	\$0

TASK		DESCRIPTION	BUDGET
2e	NEPA Environmental Review	National Environmental Clearance	\$200,000
2f	Permitting	Acquire required town, County, State, and Federal permits, including discharge permit	\$50,000
2g	Assessment District Formation		
2g1	State Revolving Loan Application	Maintained the listing on the State Revolving Fund Funding priority list	--
2g2	Assessment District Formation	Forming the mechanism to assess the property owners to fund the Project	--
2g3	Vote		--
2h	Construction		
2h1	Construction Contracting	Public Bid Process for selection of a contractor	\$45,000
2h2	Construct Phase 1a	Project Construction	\$11,580,000
2h3	Construct Future Phases		
2h3a	Construct Phase 1b		--
2h3b	Construct Phase 2		--
2h3c	Construct Phase 3		--
2i	Begin Operation	Operations Begin	\$0
		TOTAL	\$12,883,000

Construct Phase 2	Shaded tasks 2g and 2h3 are not part of the grant application, but are provided for context
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Hi-Desert Water District Wastewater Collection and Treatment Detailed Construction Costs

Table 5 - Detailed Construction Budget - HDWD Wastewater Treatment Plant Phase 1a

HI-DESERT WATER DISTRICT SEWER COLLECTION/TREATMENT/DISPOSAL OPINION OF PROJECT COSTS						
Treatment Plant Costs						
Description	Number	Units	Equipment	Tax	Installation	Total Cost
			\$	\$	\$	\$
Screenings						
Screen	1	EA	125,000	9,690	20,000	155,000
Fixed Bar Rack	1	EA	10,000	780	3,000	14,000
Fans	1	EA	5,000	390	2,000	8,000
Bin	1	EA	-	-	3,000	3,000
Concrete Floor	40	C.Y.	-	-	700	28,000
Structural Walls	40	C.Y.	-	-	750	30,000
Elevated Slab	0	C.Y.	-	-	8,000	-
Building	500	SF	25	10	100	68,000
Earthwork	30	C.Y.	-	-	20	1,000
Misc Metals	1	L.S.	12,000	930	5,000	18,000
Electrical	1	L.S.	40,000	3,100	10,000	54,000
Instrumentation	1	L.S.	20,000	1,550	3,000	25,000
Access Hatches	2	EA	8,000	620	2,000	22,000
Coating	1	L.S.	-	-	20,000	20,000
Stairs	1	EA	-	-	15,000	15,000
Misc Piping	1	L.S.	15,000	1,170	10,000	27,000
			255,500			-
						488,000
Influent Lift Station						
Pumps	-	EA.	10,000	780	3,000	-
Fans	-	EA.	6,000	470	3,000	-
Piping	-	L.S.	20,000	1,550	10,000	-
Misc Metals	-	L.S.	4,000	310	2,000	-
Structural Walls	0	C.Y.	-	-	1,100	-
Floor	0	C.Y.	-	-	1,000	-
Elevated Slab	0	C.Y.	-	-	1,000	-
Earthwork - cut	0	C.Y.	-	-	20	-
Earthwork - fill	0	C.Y.	-	-	30	-
Shoring	0	SF	25	10	-	-
Hatches	-	EA.	4,000	310	2,000	-
Coating	-	L.S.	-	-	10,000	-
Electrical	-	L.S.	20,000	1,550	10,000	-
Instrumentation	-	L.S.	6,000	470	3,000	-
			-			\$ -
Oxidation Ditch						
Equipment	1	LS	150,000	11,630	40,000	202,000
Clarifier	2	LS	75,000	5,820	20,000	202,000
Gates	1	LS	-	-	30,000	30,000
Blowers	1	LS	-	-	-	-
Air Lift Pumps	1	LS	-	-	-	-
Structural Floors - OD	620	C.Y.	-	-	650	403,000
Structural Walls - SC	93	C.Y.	-	-	750	70,000
Structural Floors - SC	37	C.Y.	-	-	700	26,000
Earthwork - cut	4000	C.Y.	-	-	10	40,000
Earthwork - fill	750	C.Y.	-	-	20	15,000
Shoring	0	SF	25	10	-	-
Covers	0	Sq. Ft.	45	4	15	-
Walkways	0	Sq. Ft.	35	3	15	-
Stairs	2	EA.	5,000	390	3,500	18,000
Coating	1	L.S.	-	-	20,000	20,000
Electrical	1	L.S.	15,000	1,170	10,000	27,000
Instrumentation	1	L.S.	10,000	780	5,000	16,000
Piping	1	L.S.	10,000	780	5,000	16,000
			345,000			\$ 1,085,000

**HI-DESERT WATER DISTRICT SEWER COLLECTION/TREATMENT/DISPOSAL
OPINION OF PROJECT COSTS**

Treatment Plant Costs

Description	Number	Units	Equipment	Tax	Installation	Total Cost	
			\$	\$	\$	\$	
Filters							
Equipment	1	EA.	125,000	9,690	17,500	153,000	
Structural Walls	45	C.Y.	-	-	750	34,000	
Structural Floors	26	C.Y.	-	-	700	19,000	
Earthwork	800	C.Y.	-	-	15	12,000	
Covers	250	Sq. Ft.	30	3	15	12,000	
Walkways	200	Sq. Ft.	35	3	15	11,000	
Stairs	2	EA.	5,000	390	5,000	21,000	
Coating	1	L.S.	-	-	5,000	5,000	
Electrical	1	L.S.	24,000	1,860	16,000	42,000	
Instrumentation	1	L.S.	8,000	620	5,000	14,000	
Piping	1	L.S.	-	-	-	-	
			157,000				\$ 323,000
UV Disinfection							
Equipment	1	L.S.	150,000	11,630	30,000	192,000	
Effluent Pumps	0	EA.	-	-	-	-	
Plant Water Pumps	3	EA.	15,000	1,170	5,000	64,000	
Hydropneumatic Sys.	1	EA.	40,000	3,100	10,000	54,000	
Structural Walls	50	C.Y.	-	-	750	38,000	
Structural Floors	20	C.Y.	-	-	700	14,000	
Elevated Slab	7	C.Y.	-	-	800	6,000	
Grating/Walkways	0	Sq. Ft.	35	10	15	-	
Coating	0	L.S.	-	-	-	-	
Covers	800	Sq. Ft.	-	-	40	32,000	
Earthwork	0	C.Y.	-	-	20	-	
Electrical	1	L.S.	40,000	3,100	35,000	79,000	
Instrumentation	1	L.S.	10,000	780	10,000	21,000	
Piping	1	L.S.	10,000	780	5,000	16,000	
			295,000				\$ 516,000
Chemical Handling							
NaOCl Pumps	2	EA.	2,000	160	2,000	9,000	
Polymer Pumps	0	EA.	-	-	-	-	
NaOCl Storage	1	L.S.	10,000	780	5,000	16,000	
Polymer Storage	1	L.S.	15,000	1,170	8,000	25,000	
Coating	1	L.S.	10,000	780	5,000	16,000	
Structural	15	C.Y.	-	-	850	13,000	
Electrical	1	L.S.	15,000	1,170	8,000	25,000	
Piping	1	L.S.	15,000	1,170	10,000	27,000	
			59,000				\$ 131,000
Odor Control							
Equipment	1	EA.	50,000	3,880	25,000	79,000	
Structural	20	C.Y.	-	-	850	17,000	
Earthwork	10	C.Y.	-	-	20	1,000	
Electrical	1	L.S.	25,000	1,940	10,000	37,000	
Piping	1	L.S.	30,000	2,330	8,000	41,000	
			105,000				\$ 175,000
Sludge Dewatering							
Belt Press	1	L.S.	250,000	19,380	35,000	305,000	
Screw Conveyor	1	EA.	40,000	3,100	10,000	54,000	
Bin	1	EA.	10,000	780	1,000	12,000	
Sludge Pumps	2	EA.	20,000	1,550	2,500	49,000	
Structural	1508	sf	-	-	125	189,000	
Electrical	1	L.S.	60,000	4,650	15,000	80,000	
Instrumentation	1	L.S.	30,000	2,330	8,000	41,000	
Piping	1	L.S.	35,000	2,720	20,000	58,000	
			465,000				\$ 788,000

Treatment Plant Costs



Table 6 - Detailed Construction Budget - HDWD Wastewater Treatment Phase 1a Collection System

HI-DESERT SEWER COLLECTION/TREATMENT/DISPOSAL PROJECT						
OPINION OF PROJECT COSTS						
Collection System						
Description	Number	Units	Equipment	Tax	Installation	Total Cost
1 Pipeline 8"	1,050	LF	-	-	64	\$ 68,000
2 Pipeline 8"	780	LF			64	\$ 50,000
3 Pipeline 12"	3,300	LF			96	\$ 317,000
4 Pipeline 12" (Hilton)	1,400	LF			96	\$ 135,000
5 Pipeline 12" (Paxton)	3,440	LF			96	\$ 331,000
6 Pipeline 15"	4,100	LF			120	\$ 492,000
7 Pipeline 15" (to WRF)	2,865	LF			120	\$ 344,000
8 Manholes (4' dia)	80	EA			4,000	\$ 320,000
9 Resid. Conn.	100	EA	-	-	2,500	\$ 250,000
10 Comm. Conn.	75	EA			2,000	\$ 150,000
11 Lift Station	1	LS	-	-	500,000	\$ 500,000
12 Force Main (8" dia)	4,900	LF	-	-	80	\$ 392,000
						\$ 3,349,000
Bid Contingency at 1%						\$ 34,000
Contractor OH & P @ 12%						\$ 576,000
Facilities Construction						\$ 3,959,000
Facilities Planning						\$ -
Master Plan						\$ -
Facilities Design						\$ 130,000
Final Design						\$ 80,000
Surveying						\$ 25,000
Soils Engineering						\$ 25,000
Admin & Legal						\$ 125,000
Legal						\$ 25,000
District Plan Review at 0.5%						\$ 20,000
District Inspection at 2%						\$ 79,180
Land and Right of Way						\$ 100,000
Prime Engineering						\$ -
Contingency at 15%						\$ 594,000
Engr Services During Constr						\$ 74,000
Office Engineering @ 1%						40,000
Construction Survey						34,000
Other Costs						\$ -
Total Capital Costs						\$ 4,982,000

Table 7 - Application "Table 7" Project Budget, HDWD Wastewater Treatment

Table 7 - Project Budget						
Proposal Title: Mojave Water Agency IRWM Region Recharge, Reclamation and Conservation Implementation Grant Application						
Project Title: Hi-Desert Water District Wastewater Treatment and Water Reclamation Project (CR)						
Budget Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$0	\$0	\$0	\$0	0%
(b)	Land Purchase/Easement	\$25,000	\$75,000	\$0	\$100,000	25%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$227,000	\$681,000	\$0	\$908,000	25%
(d)	Construction/Implementation	\$7,505,500	\$3,206,500	\$0	\$10,712,000	70%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$200,000	\$0	\$0	\$200,000	100%
(f)	Construction Administration	\$12,500	\$37,500	\$0	\$50,000	25%
(g)	Other Costs	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency	\$913,000	\$0	\$0	\$913,000	100%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$8,883,000	\$4,000,000	\$0	\$12,883,000	69%
*List sources of funding: o Prop. 84 - \$4,000,000 o United States Bureau of Reclamation - \$2,997,750 o U.S. EPA - \$692,000 o State Revolving Fund Loan - \$5,193,250 (CR) - Colorado River Funding Area						

Notes:

- Item (b) reflects the remaining expense for easement acquisition; land for the water treatment plant was acquired in 2003 and is not included in the grant budget accounting

MOJAVE WATER AGENCY TURF REMOVAL CONSERVATION INCENTIVE PROGRAM BUDGET

The “Cash for Grass” turf removal incentive program for Fiscal Years 2012 and 2013 will provide rebates of \$0.50 per square foot for up to 6 million square feet of turf replacement. The \$3.2 million cost is proposed to be partially funded through the Proposition 84 grant program. Program administration, promotion, and auditing costs of \$235,000 will be fully funded by Mojave Water Agency. Table 8 summarizes the Work Plan task budgets. A more detailed budget is presented as Table 9.

The agreement in use for the Cash for Grass program is included as Figure 1 (page 18).

Budget items corresponding to the Work Plan tasks are presented in Table 8.

A detailed budget, including soft cost activities (such as environmental documentation) is presented in Table 9.

The application “Table 7” Project Budget, showing funding sources and requested grant funds is presented as Table 10.

Table 8 - Work Plan Task Budgets, MWA Turf Removal

TASK		DESCRIPTION	BUDGET
3a	Advertising	Place print and broadcast media ads; Attend community functions & distribute multi-lingual application materials	\$30,000
3b	Implement Rebate Program	Work with residential, commercial and industrial customers to write contracts for reimbursing \$0.50 per square foot of turf removal	\$3,190,000
3c	Long-term Performance Audit	Perform audits to determine duration of turf removal	\$15,000
		TOTAL	\$3,235,000

Salaries and Wages – Program administration and monitoring will be performed via a half-time commitment of the Mojave Water Agency Manager of Water Conservation for project management, assisted by one full-time and one half-time inspector/administrator. Costs to administer and implement the incentive program, and to administer the DWR grant program are included.

Travel – Only incidental travel is associated with this program.

Equipment – None required.

Materials and Supplies – All materials, supplies and labor associated with the turf replacement are the responsibility of the rebate applicant. The applicant must complete the work and arrange for post-conversion inspection before the rebate is issued. Rebates are \$0.50 per square foot with a maximum

of \$3,000 for residential properties or \$10,000 for commercial properties, regardless of the actual cost of the conversion.

Environmental and Regulatory Compliance Costs – None required.

Other Costs – Print and broadcast advertising at \$15,000 per year. Long-term performance audit at \$3,000 per year. Cost to administer DWR grant program is included in staff costs.

Table 9 - Detailed Project Budget, MWA Turf Removal

Budget Item Description	\$/Unit and Unit	Quantity	Total Cost
Salaries and Wages			
Conservation Program Manager	\$46,700 /FTE/yr	1.0	\$46,700
Conservation Program Administrators	\$26,700 /FTE/yr	3.0	\$80,100
Fringe Benefits			
Conservation Program Manager	\$23,300 /FTE/yr	1.0	\$23,300
Conservation Program Administrators	\$13,300 /FTE/yr	3.0	\$39,900
Travel			
Incident travel only	\$0		
Equipment	\$0		
Supplies/Materials			
Office supplies	\$0		
Construction	\$0		
Contractual Construction			
Turf Replacement Incentive	\$0.50 /sq.ft.	6,000,000	\$3,000,000
Environmental and Regulatory Compliance	\$0		
Other			
Reporting	included in salary cost		\$0
Performance audit	\$3,000 /yr	5.0	\$15,000
Advertising	\$15,000 /yr	2.0	\$30,000
TOTAL PROJECT COSTS			\$3,235,000

Table 10 - Application "Table 7" Project Budget, MWA Turf Removal

Table 7 - Project Budget						
Proposal Title: Mojave Water Agency IRWM Region Recharge, Reclamation and Conservation Implementation Grant Application						
Project Title: Mojave Water Agency Turf Removal Conservation Incentive Program (L)						
Budget Category		(a)	(b)	(c)	(d)	(e)
		Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$190,000	\$0	\$0	\$190,000	100%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	0%
(c)	Planning/Design/Engineering/ Environmental Documentation	\$15,000	\$0	\$0	\$15,000	100%
(d)	Construction/Implementation	\$1,000,000	\$2,000,000	\$0	\$3,000,000	33%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$0	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs	\$30,000	\$0	\$0	\$30,000	100%
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0	0%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$1,235,000	\$2,000,000	\$0	\$3,235,000	38%
*Sources of funding: Mojave Water Agency FY12 and FY13 budget item derived from taxes and water sale revenues						

(CR) Colorado River Funding Area
(L) Lahontan Funding Area

PROPOSITION 84 IRWM GRANT ADMINISTRATION BUDGET

Task 4 covers the administration of the IRWM grant, including quarterly reporting and development of the final report. Ten quarterly reports (Task 4d) are anticipated over the course of project implementation at a cost of \$200 each (6 hours at \$33/hr). \$1000 has been budgeted for the Final Report (Task 4e). There are no grant-related costs associated with Tasks 4a, 4b, and 4c. These costs are included in the Direct Project Administration budgets of the three projects.

4 Prop 84 IRWM Grant Administration
4a Application
4b DWR Review
4c Award
4d Start Construction
4d Quarterly Reports
4e Final Report

SUMMARY BUDGET

The summary budget for all three projects is presented in Table 11 below. The total cost of the projects is \$24,146,000. A total of \$10,000,000 in grant funds is being requested in the Colorado River Funding area (\$8,000,000) and the Lahontan Funding Area (\$2,000,000). The non-State funding match is 59 percent of the total.

Table 11 - Application "Table 8" Summary Budget

Table 8 - Summary Budget						
Mojave Water Agency IRWM Region Recharge, Reclamation and Conservation Implementation Grant Application						
Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
(a)	Joshua Basin Water District Recharge Basin and Pipeline Project (CR)	\$4,028,000	\$4,000,000	\$0	\$8,028,000	50%
(b)	Hi-Desert Water District Wastewater Treatment and Water Reclamation Project (CR)	\$8,883,000	\$4,000,000	\$0	\$12,883,000	69%
(c)	Mojave Water Agency Turf Removal Conservation Incentive Program (L)	\$1,235,000	\$2,000,000	\$0	\$3,235,000	38%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$14,146,000	\$10,000,000	\$0	\$24,146,000	59%

(CR) Colorado River Funding Area

(L) Lahontan Funding Area

Figure 1 - Cash for Grass Application Form

Application # _____ Date _____

HIGH DESERT SAVES WATER Cash for Grass Landscape Program

Mojave Water Agency (MWA), in partnership with your local water district or municipality, and the State of California Department of Water Resources, are offering property owners a rebate cash incentive to remove lawn and replace it with water-efficient landscaping through the Cash for Grass Program. Beginning in February 2008, rebates are offered to water retailer customers and property owners served by the Mojave Water Agency at \$0.50 per square foot to replace lawn with eligible low water-use landscaping. This program offers financial assistance to customers by offsetting a portion of the cost to convert water-thirsty lawn to native and desert adaptive landscapes.

REQUIREMENT: Please read all program rules carefully before submitting this application.

1. Starting without water agency approval will make your landscape conversion project ineligible for participation in this program.
2. Program funding is limited.
3. Applications will be accepted on a first-come, first-serve basis while funding is available.
4. MWA, at its discretion, may at any time modify, suspend, or terminate this program without prior notice.
5. Please submit this original application only after application is completed and all necessary items listed are included.

ELIGIBILITY

Customers served by local water district municipalities: Program application must be mailed to your local water district and pre-approved by your local water district before removing any lawn and beginning the landscape conversion project. Your water district may require your presence during the site pre-inspection before providing approval for your project. See item "PRE-CONVERSION INSPECTION" on other side of this application for more information.

Customers served by water retailers and those receiving water from alternative water sources such as wells or water truck haulers: Program application and your most recent property tax statement must be mailed to the Mojave Water Agency and pre-approved by Mojave Water Agency before removing any lawn and beginning the landscape conversion project. MWA may require your presence during the site pre-inspection before providing approval for your project. See item "PRE-CONVERSION INSPECTION" on other side of this application for more information.



Areas to be converted must be living and maintained lawn only.

Residential landscape conversion limits – zero square feet (sq. ft.) up to 6,000 sq. ft. maximum.

Commercial/Industrial/Institutional (CII) landscape conversion limits – zero square feet up to 20,000 sq. ft. maximum.

Applicant must participate in a post-inspection to receive final approval and sign-off of the landscape and irrigation system conversion before a rebate check will be issued. Once your project is completed, contact Niagara Conservation Corporation to schedule a post inspection at 800-831-8383, ext. 9308.

Note: "Prior to conversion projects exceeding maximum square footage will be considered on a case-by-case basis and subject to pre-approval by Mojave Water Agency."

FOR OFFICE USE ONLY PRE-INSPECTION

Date _____

Application # _____

Water Account # _____

Water District Code _____

Site _____

Residential ☐

Multi-Family ☐

CII ☐

Sq Ft grass to be removed _____

Sq Ft of plant cover (A ÷ 4) _____

Type of irrigation in area _____

Consumption history of customer _____

Expected date of completion _____

Date photo taken (attached) _____

Inspector signature _____

Owner signature _____

POST-INSPECTION

Date _____

Sq Ft removed _____

Sq Ft of plant cover installed _____

Converted to drip irrigation

Yes ☐

No ☐

Date photo taken (attached) _____

Inspector Signature _____

Owner Signature _____

Notes: _____

Property Owner _____ Date _____

Service Address _____

Mailing Address (if different than above) _____

City _____ Zip _____

Daytime Phone () _____ Evening Phone () _____

Email Address _____

Your Water District _____

My Account Number or APN is: (Please refer to your water bill or property tax statement) _____

How did you hear about the program? Mailer__ Newspaper__ Radio__ AWAC__ Website__ Other_____

Please read the paragraph below carefully before signing. If you do not fully understand each of the statements, please call 800-831-8383, ext. 9308 or visit www.highdesertsaveswater.org.

I am the rightful owner or owner's agent for the property described above. I agree to abide by the rules of this program. This application has been accurately completed and the information herein is intended to meet the incentive program requirements. I understand that I may be disqualified from this program if my irrigation system is found to have any serious inefficiencies during the irrigation audit. I will not begin my landscape conversion replacement project until I have been notified at or following the pre-conversion inspection that my application has been approved.

Property Owner: _____ **Date:** _____

Inspector's Signature: _____ **Phone Number:** _____

For office use only Processed by _____ Date _____ Check Amount _____ Check# _____ Date to NCC _____ by _____ ORIGINAL NCC - YELLOW WATER AGENCY - PINK POST-INSPECTION CUSTOMER - GOLD PRE-INSPECTION CUSTOMER

LANDSCAPING REQUIREMENTS

A 25% living plant coverage may be required by your supervising water district or municipality. This information will be provided during your pre-inspection. Plant lists are available through your local water district or municipality and the Alliance for Water Awareness and Conservation (AWAC) www.hdawac.org website. Remaining lawn areas are not considered as plant cover. Plants and lawn outside the converted area are not covered or considered in the rebate calculation even if they are adjacent or overhanging into the area. It is recommended that converted areas be covered by a minimum two (2) inch layer of permeable mulch and this may be a requirement in your area. Mulches may include bark, rock, un-grouted stepping stones, and permeable artificial turf. Non-permeable materials like plastic film are not permitted.

IRRIGATION SYSTEM REQUIREMENTS

If a spray irrigation system is currently being used, it must be converted to a low-volume drip system equipped with a pressure regulator, filter and emitters providing irrigation to new plantings. Each drip emitter must be rated at less than 20 gallons per hour (gph). Spray irrigation is not permitted in the landscape conversion area and must be capped off if not converted to drip irrigation. If part of a lawn is converted, the sprinkler system must be properly modified to provide adequate coverage to the remaining lawn without spraying the converted area.

REBATE TERMS

The terms of this agreement expire in six calendar months from the date the application is approved, or the date of the pre-inspection. Extensions are not available. The final inspection is not counted against the six-month time limit once your water district or Niagara Conservation Corporation has been notified that your project is complete. Only one rebate payment may be received under this agreement. Mojave Water Agency reserves the right to reject or limit the number of applications being processed. Applications will be accepted on a first-come, first-serve basis and only while funding is available or until the program is discontinued.

REBATE AMOUNT

The Cash for Grass rebate is \$0.50 per square foot for approved landscape conversions. Additional rebate dollars may be provided by your local water district and will be added to your rebate check.

Cash for Grass rebate amounts:

\$0.50 up to \$3,000 – Single Family Residential

\$0.50 up to \$10,000 – Commercial, Industrial and Institutional

Rebate checks are issued within 60 days after the post-inspection to the billing name on the account.

PRE-CONVERSION INSPECTION

Pre-inspections of your existing landscape will be conducted by your local water district or municipality. Applicants who receive water by well or water hauler service will be pre-inspected by Mojave Water Agency. Your application must be pre-approved before removing any lawn and beginning a conversion.

- ☐ Photos of the existing lawn will be taken during the landscape pre-inspection. _____ (Initial)
- ☐ Your local water district **requires** that you, or an authorized person over the age of 18, be present during the pre-conversion inspection.
- ☐ Your local water district, municipality or MWA **does not require** your presence during the pre-conversion inspection. If you are unable to be present and authorize the pre-inspection to take place, please sign the site authorization section of your application form. _____ (Initial)

POST-CONVERSION INSPECTION

Once the landscape project is finished, you are responsible for notifying Niagara to schedule a post-inspection. Niagara's toll free number is 800-831-8383, ext. 9308. You, or an authorized person over the age of 18, are required to be on premise during the post-inspection.

The post-inspection will include taking photos of the converted landscape, obtaining converted landscape area measurements, irrigation system inspection, plant eligibility review for program compliance and rebate eligibility verification. _____ (Initial)

If the converted landscape or irrigation system fails inspection, you will be notified, provided an explanation, and **allowed 60 (sixty) days** or the remainder of the six-month period, whichever is greater, to fully comply with the program conditions. No additional extensions are allowed.

CONVERSION SUSTAINABILITY REQUIREMENTS

The converted area must remain in compliance with all program conditions for a period of two (2) years.

If the landscaping is altered during this two (2) year period, you may be required to refund some or the entire rebate if this requirement is violated.

Landscape and plant maintenance, plant quality and appearance before, during, and after the conversion are the sole responsibility of the applicant.

This requirement is void upon property transfer of ownership.

OTHER APPLICANT RESPONSIBILITIES

Mojave Water Agency and partnering water districts enforce only the conditions of this agreement.

The applicant is responsible for complying with all laws, policies, codes and covenants that may apply.

Program rebates for more than \$600 may be considered taxable income requiring IRS Form 1099 to be issued as required by law.

Disclaimer – MWA reserves the right to reject any application that does not meet all of the requirements of the MWA "Cash for Grass" Landscape Incentive Program. MWA makes no representations or warranties as to the condition, quality, effectiveness, operability or cost of installing or maintaining residential, multi-family, commercial, industrial, or institutional landscapes subject to this program, or of removing or disposing of any landscape or irrigation equipment debris in connection therewith and, to the extent not prohibited by law, disclaims all express and implied conditions, representations and warranties related thereto, including without limitation, any implied warranty of merchantability or fitness for a particular purpose. Limitation of Liability/Release – Applicant understands and agrees that, to the extent not prohibited by law, in no event shall MWA, its officials, officers, employees or agents be liable for any claimed or actual damages or losses of any kind, however caused and regardless of the theory of liability, related in any way to this landscape "Cash for Grass" rebate incentive program, even if MWA has been advised of the possibility of such damages or losses. To the extent not prohibited by law, applicant assumes all risks associated with this program, including without limitation, all risks associated with purchase, installation and maintenance of landscape material and irrigation system equipment subject to this program (including without limitation the risk of not realizing cost savings as a result of converting to low water use landscape), and the removal and disposal of any landscape materials, irrigation system equipment, and landscape maintenance debris in connection therewith. Applicant releases MWA its officials, officers, employees and agents from any and all claims for damage or death or injury to any persons or property arising in any way from this "Cash for Grass" landscape rebate incentive program, any landscape material disposal, irrigation system equipment, or landscape maintenance and equipment subject to this program (including without limitation the use or operation thereof), or the removal or disposal of any landscape materials and irrigation system equipment in connection therewith, other than those caused solely by the willful or grossly negligent acts or omission of MWA.

Cash for Grass Page Two 10/30/08